

January 12, 2010



U.S. Department  
of Transportation

East Building, PHH-30  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 14916

<b>EXPIRATION DATE:</b> December 31, 2011
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(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Air Products and Chemicals, Inc.  
Allentown, PA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of an assembled electrolytic cell containing corrosive solids, toxic, n.o.s. in alternative packaging. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.242 in that non-DOT specification packaging is not authorized except as specified herein.
5. BASIS: This special permit is based on the application of Air Products and Chemicals, Inc. dated September 18, 2009 and additional information dated October 16,, 2009, submitted in accordance with § 107.105 and the public proceeding thereon.

**January 12, 2010**6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Corrosive solids, toxic, n.o.s. (potassium hydrogen difluoride, hydrogen fluoride)	8	UN2923	I, II

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is an assembled fluorine generator electrolytic cell fabricated from Monel 400. The generator must be as shown on Air Products and Chemicals, Inc. (APCI) Drawing Number DOC0000403032 and the description in APCI's special permit application. The shipping container for the generator consists of a frame (constructed of carbon steel ASTM SA36 or equivalent) and an overpack (constructed of Aluminum 5052 or equivalent, or 3/4 inch plywood) as shown on APCI Drawing No. 317485-005. These drawings are on file with the Office of Hazardous Materials Special Permits and Approvals.

b. OPERATIONAL CONTROLS -

(1) The electrolytic cell must be designed and constructed in accordance with Section VIII, Division I of the AMSE Code. The cell is not ASME Code "U" stamped.

(2) The electrolytic cell must be transported at ambient temperature.

(3) All openings, fittings, closures, etc. in the electrolytic cell must be securely closed during transportation.

(4) The electrolytic cell posts must be insulated to prevent arcing during transportation (Voltage~0.5 volts DC)

(5) When sub-freezing temperatures are anticipated, the electrolytic cell jacket must be drained of any

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cooling water prior to being offered for shipment or suitable antifreeze must be incorporated into the jacket to prevent freezing and jacket rupture.

(6) All electrolytic cells must be secured against movement during transportation. Packaging must be stored and maintained at a temperature below 160°F which prevents the material(s) from undergoing a phase change.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

c. The outside of each shipping container must be plainly and durably marked "DOT-SP 14916" as specified in § 172.302(b) and (c).

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle and cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel or motor vehicle used to transport packages covered by this special permit.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.

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- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie  
Acting Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm). Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

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